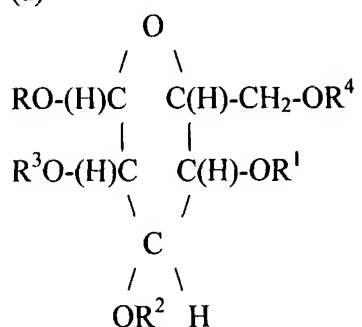


Claims;

What is claimed;

1. A method for inhibiting microbial growth of a broad spectrum of microorganisms which comprises contacting a substrate subject to attack by microorganisms selected from the group consisting of bacteria, fungi, yeasts and mold with an antimicrobially effective amount of an antimicrobial composition conforming to the following structure:

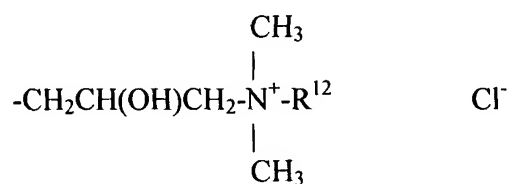
(a)



wherein;

R is alkyl having 8 to 22 carbon atoms;

R¹, R², R³ and R⁴ are independently selected from the group consisting of



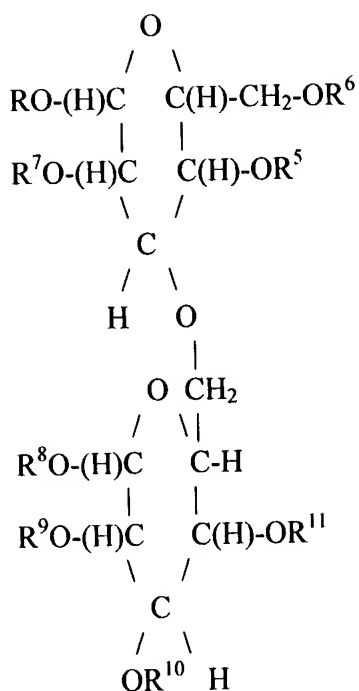
and H, with the proviso that R¹, R², R³. and R⁴ are not all H;

R¹² is CH₃(CH₂)_n-

n is an integer ranging from 0 to 21;

and

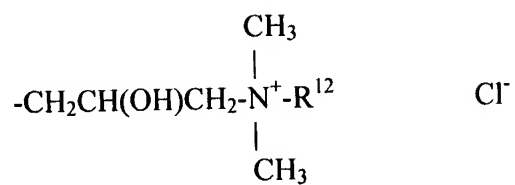
(b)



wherein;

R is alkyl having 8 to 22 carbon atoms;

R¹, R², R³ and R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, and R¹¹ are independently selected from the group consisting of



and H, with the proviso that R¹, R², R³, and R⁴ are not all H;

R¹² is CH₃(CH₂)_n-

n is an integer ranging from 0 to 21.

2. A method of claim 1 wherein n is 0.
3. A method of claim 1 wherein n is 11.
4. A method of claim 1 wherein n is 13.
5. A method of claim 1 wherein n is 17.
6. A method of claim 1 wherein n is 19.
7. A method of claim 1 wherein n is 21.